DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

# **NOTICE OF ACCEPTANCE (NOA)**

MIAMI-DADE COUNTY, FLORIDA PRODUCT CONTROL SECTION 11805 SW 26 Street, Room 208 T (786) 315-2590 F (786) 315-2599 www.miamidade.gov/economy

Air Master Awning, LLC Road 2 Interior Km 56.7 P. O. Box 2097 Barceloneta, PR 00617–2097

Scope:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

#### **DESCRIPTION:**

Series "SH 250 IR PW 250" Aluminum Single Hung side-by-side with Aluminum Fixed Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. 12–201, "SH 250 IR Aluminum Single Hung Window with Picture Window", sheets 1 through 06 of 06, dated 07/06/12, prepared by V.J. Knezevich & Associates, LLC, with the latest revision, signed and sealed by V.J. Knezevich, P. E., bearing the Miami-Dade County Product Control Section Approval stamp with the Notice of Acceptance number and Approval date by the Miami-Dade County Product Control Section.

### MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, Barceloneta, Puerto Rico, series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami–Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 and evidence page E-1, as well as approval document mentioned above. The submitted documentation was reviewed by **Jaime D. Gascon**, **P. E.** 



JENIES

NOA No. 12-0926.06 Expiration Date: February 28, 2018 Approval Date: February 28, 2013

Page 1

# Air Master Awning, LLC

# NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

#### A. DRAWINGS

- 1. Manufacturer's die drawings and sections.
- 2. Drawing No. 12–201, "SH 250 IR Aluminum Single Hung Window with Picture Window", sheets 1 through 06 of 06, dated 07/06/12, prepared by V.J. Knezevich & Associates, LLC, with the latest revision, signed and sealed by V.J. Knezevich, P. E.

#### B. TESTS

- 1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
  - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
  - 3) Water Resistance Test, per FBC, TAS 202-94
  - 4) Large Missile Impact Test per FBC, TAS 201-94
  - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of Aluminum Single Hung with Fixed Window, prepared by Blackwater Testing, Inc., Test Report No. BT-AM-12-002, dated 09/11/12, signed and sealed by Yami Gerardo Kuri, P.E.

## C. CALCULATIONS

- Anchor calculations and structural analysis, complying with FBC-2010 and ANSI/ AAMA/ NWWDA 1001/ I.S.2-97, prepared by V.J. Knezevich & Associates, LLC, dated 02/18/13, signed and sealed by V.J. Knezevich, P. E.
- 2. Glazing complies with ASTM E1300-04e1

#### D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

#### E. MATERIAL CERTIFICATIONS

 Notice of Acceptance No. 11-1102.09 issued to Solutia, Inc. for their "Saflex CP -Saflex and Saflex HP Composites Glass Interlayers with PET Core" dated 06/14/12, expiring on 12/11/13.

#### F. STATEMENTS

- 1. Statement letter of no financial interest, independence, conformance and compliance with the **FBC-2010** and ANSI/ AAMA/ NWWDA 1001/ I.S.2-97, prepared by V.J. Knezevich & Associates, LLC, dated 02/18/13, signed and sealed by V.J. Knezevich, P. E.
- 2. Laboratory addendum letter for Test Report No. BT-AM-12-002, issued by Blackwater Testing, Inc., dated 09/18/12, signed and sealed by Yami Gerardo Kuri, P. E.
- 3. Laboratory compliance letter for Test Report No. BT-AM-12-002, issued by Blackwater Testing, Inc., dated 09/11/12, signed and sealed by Yami Gerardo Kuri, P. E.

## G. OTHERS

1. None.

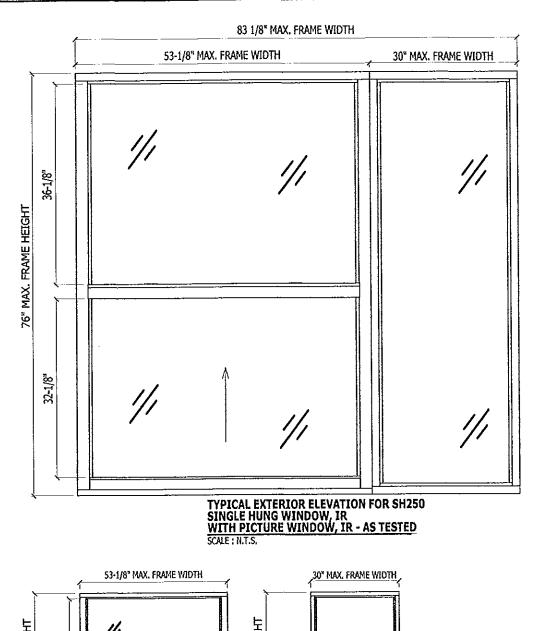
Jaime D. Gascon, P. E.

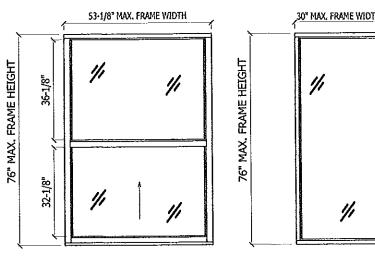
Product Control Section Supervisor

NOA No. 12-0926.06

Expiration Date: February 28, 2018 Approval Date: February 28, 2013

BILL OF MATERIAL							
TEM #	PART #	ITEM DESCRIPTION	MANUFACTURER/NOTES				
	PARTS & EXTRUSIONS						
1	22018	RAME HEAD W/FLANGE GLOBAL HOLDEX / 6063-T5					
1A	22017	FRAME HEAD GLOBAL HOLDEX / 6063-T5					
2	22022	FRAME JAMB W/FLANGE	GLOBAL HOLDEX / 6063-T5				
2A	22021	FRAME JAMB	GLOBAL HOLDEX / 6063-T5				
3	22701	FRAME SILL W/FLANGE	GLOBAL HOLDEX / 6063-T5				
ЗА	22713	FRAME SILL	GLOBAL HOLDEX / 6063-T5				
4	22019	FIXED MEETING	GLOBAL HOLDEX / 6063-T5				
5	22023	VENT. TOP	GLOBAL HOLDEX / 6063-T5				
6	22024	VENT BOTTOM	GLOBAL HOLDEX / 6063-T5				
7	22025	VENT JAMB	GLOBAL HOLDEX / 6063-T5				
8	22250	GLASS STOP	GLOBAL HOLDEX / 6063-T5				
9	22029	MULLION ZERO	GLOBAL HOLDEX / 6063-T6 PERFILES DE ALUMINIO / 6063-T6				
10		PERFILES DE ALUMINIO / 60					
11	22028	ANCHOR CLIP	GLOBAL HOLDEX / 6063-T5 PERFILES DE ALUMINIO / 6063-T5				
11A	96520	ANGLE 1.122" x 1.25" x 0.1" x1.6"	GLOBAL HOLDEX / 6063-T5				
		GLASS					
12	75192	IMPACT GLASS 5/16" CLEAR	AGC FLAT GLASS NORTH AMERICA				
		1/8" ANN - 0.090" SAFLEX CP - SAFLEX	AND SAFLEX HP COMPOSITE GLASS				
		INTERLAYERS WITH PET CORE BY SOLU					
		SEALS & SEALANTS	· · · · · · · · · · · · · · · · · · ·				
13	22438	WEATHERSTRIP SILL	ULTRAFAB				
14	96917	VINYL BOTTOM RAIL	SOUTHERN PLASTICS				
15		VINYL FP-448 BLACK	SOUTHERN PLASTICS				
16		DC-995 SILCON STRUCTURAL BLACK	CARIBBEAN SALES AGENCY				
17		FELPA #1220 VENT JAMB	ULTRAFAB				
18		BUTYL GASKET JAMB-HEAD	LAMATEK, INC				
19		BUTYL GASKET JAMB-SILL	LAMATEK, INC				
20	<del></del>	BUTYL GASKET FIX MEETING	LAMATEK, INC				
20A	_	NOVAFLEX M-170	NOVAGARD SILICONES				
208		TAPE 1/4" x 36 YD VHB 4991B	ЗМ				
20C	10,00	LIQUID NAIL LN 740 OR LN 700	LIQUID NAIL ADHESIVE MANUFACTURE				
206	<u> </u>	FASTENERS	Talada thire United to Hunton We Love				
21	95499	SCR 8×3/4" PHI P/H SS T-A	LA CASA DE LOS TORNILLOS SONFAST / CENTURY FASTENERS				
22	60707	NUTS BLIND 10-24	REMACHES DE PUERTO RICO				
23	95694	10-24x1-1/2" PHI F/H S/S	LA CASA DE LOS TORNILLOS SONFAST				
24		#12-14 x 1" 300 S.S. BI-METAL S.D. PT. 2 HWH	ELCO CONSTRUCTION PRODUCTS-BI-FLEX				
	ELG OR ELD	1/4"Ø ELCO ULTRACON PHI F/H P/H	ELCO CONSTRUCTION PRODUCTS WITH STALGARD				
25		#10 WOOD SCREW PHI F/H S.S.	W/ DISSIMILAR METALS CORROSION COATING				
25 25A	N/A	#10 WOOD SEREW 1711 711 3.5.					
		HARDWARE					
25A	N/A	HARDWARE	COATING				





TYPICAL EXTERIOR ELEVATION SINGLE HUNG WINDOW SCALE: N.T.S.

Approved as complying with the Florida Building Code Date NOAN Miami Ende Product Control By January

TYPICAL EXTERIOR ELEVATION PICTURE WINDOW SCALE: N.T.S.

SH2SO ALUMINUM SINGLE HUNG
WINDOW IR WITH PICTURE WINDOW IR

Consulting Engineers \* COA 27989
Consulting Engineers \* COA 27989

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BARCEL ONETA, P.R. (966) Topyright © 2012 VIKnezevich & Associates, LLC d/bla Knezevich Associates

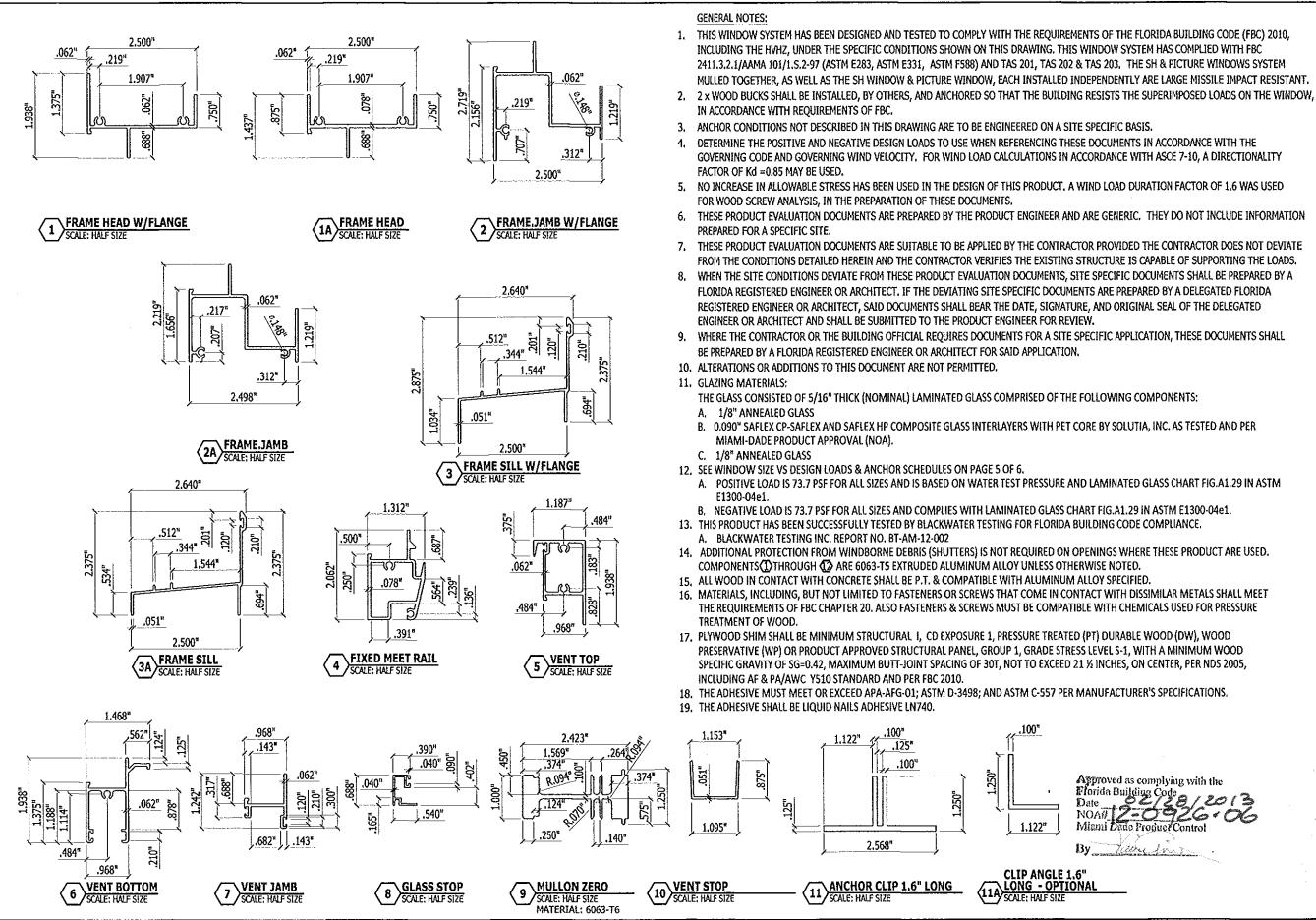
Tel. (187) 623 (187) 623 (187) Factorich Associates

Tel. (187) 623 (187) 623 (187) 624 (187 V.J. Knezevich

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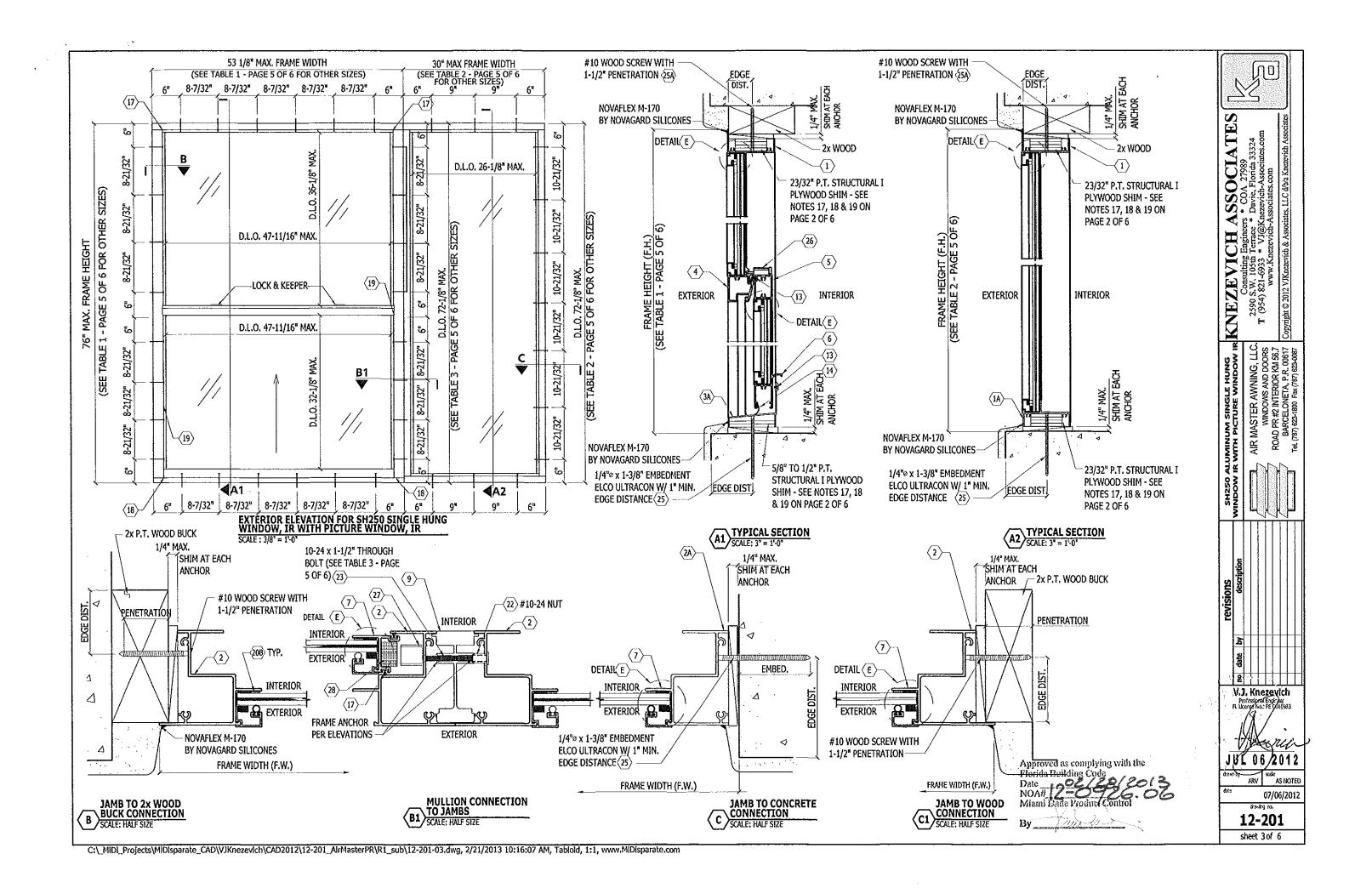
12-201 sheet 1 of 6

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12-201

sheet 2 of 6



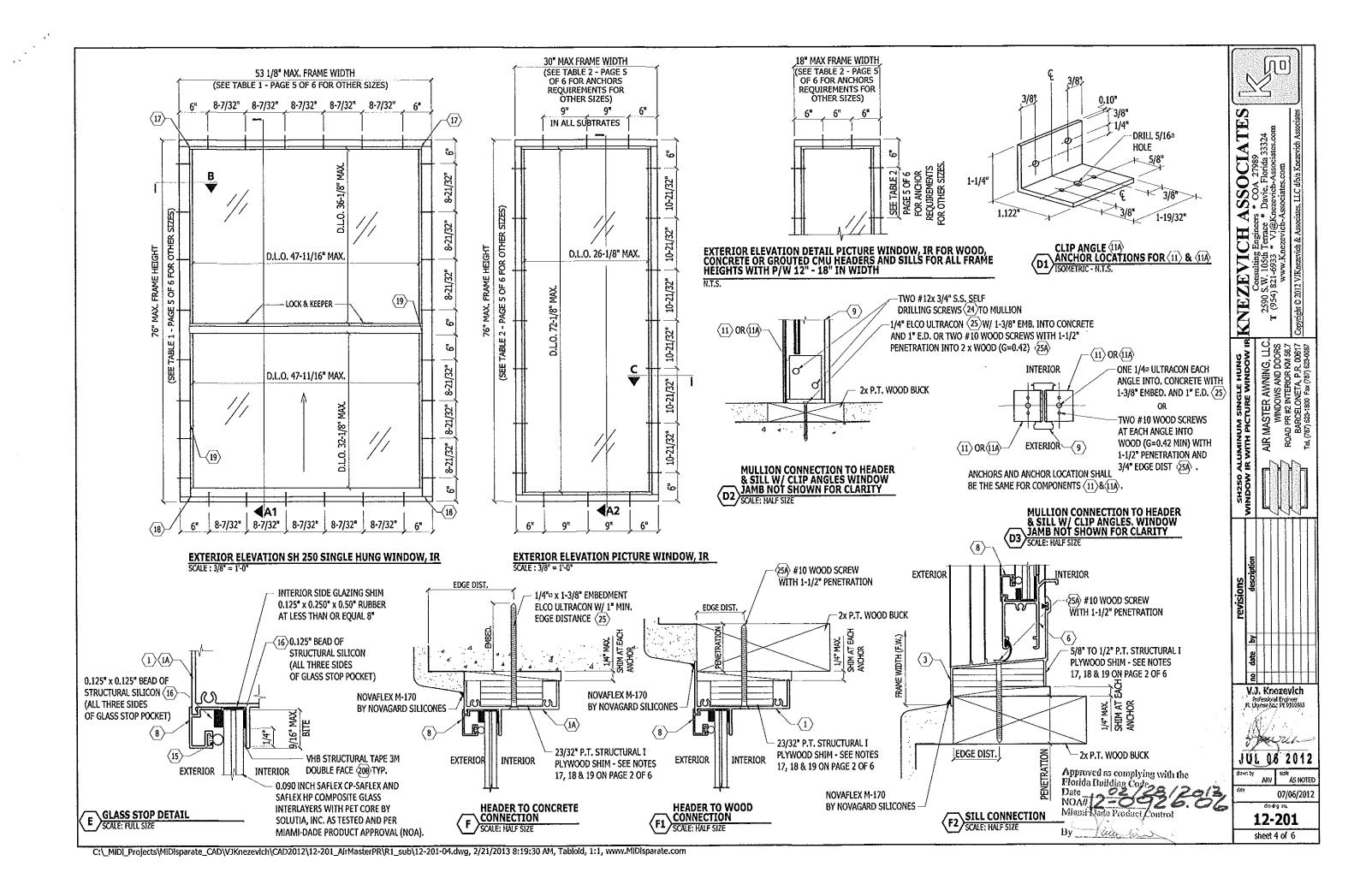


TABLE 1 - SH250 WINDOW IR SIZE VS DESIGN LOADS & ANCHOR SCHEDULE								
WIDTH OF FULL WINDOW (In)	HEIGHT OF FULL WINDOW (in)	POSITIVE DESIGN LOAD (psf)	NEGATIVE DESIGN LOAD (psf)	#10 WOOD SCREW IN G = 0.42 WOOD OR BETTER SEE TABLE 1 NOTES 1 & 2 BELOW		1/4"ø ELCO ULTRACON IN IN CONCRETE OR GROUT SEE TABLE 1 NOTES 1 & 2 BELOW		1/4"Ø ELCO ULTRACON IN CMU SEE TABLE 1 NOTES 1 & 2 BELOW
	, ,	,,		JAM8 Quantity	HEADER/SILL Quantity	JAMB Quantity	HEADER/SILL Quantity	FRAME JAMB TO WALL Quantity
19-1/8	26	73.7	73.7	4	2	4	2	4
26-1/2	26	73.7	73.7	4	3	4	3	4
37	26	73.7	73.7	4	5	4	5	4
53-1/8	26	73.7	73.7	4	6	4	6	4
19-1/8	38-3/8	73.7	73.7	4	2	4	2	4
26-1/2	38-3/8	73.7	73.7	4	3	4	3	4
37	38-3/8	73.7	73.7	4	5	4	5	4
53-1/8	38-3/8	73.7	73.7	4	6	4	6	6
19-1/8	50-5/8	73.7	73.7	6	2	6	2	6
26-1/2	50-5/8	73.7	73.7	6	3	6	3	6
37	50-5/8	73.7	73.7	6	5	6	5	6
53-1/8	50-5/8	73.7	73.7	6	6	6	6	6
19-1/8	56	73,7	73.7	6	2	6	2	6
26-1/2	56	73.7	73.7	6	3	6	3	6
37	56	73.7	73.7	6	5	6	5	6
53-1/8	56	73.7	73.7	6	6	6	6	8
19-1/8	63	73,7	73.7	8	2	8	2	6
26-1/2	63	73.7	73.7	8	3	8	3	6
37	63	73.7	73,7	8	5	8	5	6
53-1/8	63	73.7	73.7	8	6	8	6	. 8
19-1/8	76	73.7	73.7	8	2	8	2	8
26-1/2	76	73.7	73.7	8	3	8	3	8
37	76	73.7	73.7	8	5	8	5	8
53-1/8	76	73,7	73.7	8	6	8	6	10

TABLE 2 - PICTURE WINDOW IR SIZE VS DESIGN LOADS & ANCHOR SCHEDULE								
WIDTH OF FULL WINDOW (in)	HEIGHT OF FULL WINDOW (in)	POSITIVE DESIGN LOAD (psf)	NEGATIVE DESIGN LOAD (psf)	#10 WOOD SCREW IN G = 0.42 WOOD OR BETTER SEE TABLE 2 NOTES 1 & 2 BELOW		1/4" ELCO ULTRACON IN IN CONCRETE OR GROUT SEE TABLE 2 NOTES 1 & 2 BELOW		1/4"  ULTRACON IN CMU SEE TABLE 2 NOTES 1 & 2 BELOW
		,		JAMB Quantity	HEADER/SILL Quantity	JAMB Quantity	HEADER/SILL Quantity	FRAME JAMB TO WALL Quantity
12	26	73.7	73.7	3	2	3	2	3
18	26	73.7	73.7	3	2	3	2	3
24	26	73.7	73.7	3	3	3	3	3
30	26	73.7	73.7	3	3	3	3	3
12	38-3/8	73.7	73.7	4	2	4	2	4
18	38-3/8	73.7	73.7	4	2	4	2	4
24	38-3/8	73,7	73.7	4	3	4	3	4
30	38-3/8	73.7	73.7	4	3	4	3	4
12	50-5/8	73.7	73.7	5	2	5	2	5
18	50-5/8	73.7	73.7	5	2	5	2	5
24	50-5/8	73.7	73.7	5	3	5	3	5
30	50-5/8	73.7	73.7	5	3	5	3	5
12	56	73.7	73.7	6	2	6	2	6
18	56	73.7	73.7	6	2	6	2	6
24	56	73.7	73.7	6	3	6	3	6
30	56	73.7	73.7	6	3	6	3	6
12	63	73.7	73.7	6	2	6	2	6
18	63	73.7	73.7	6	2	6	2	6
24	63	73.7	73.7	6	3	6	3	6
30	63	73.7	73.7	6	3	6	3	6
12	76	73.7	73.7	7	2	7	2	7
18	76	73.7	73.7	7	2	7	2	7
24	76	73.7	73.7	7	3	7	3	7
30	76	73.7	73.7	7	3	7	3	7

### TABLE 1 NOTES:

- THE ABOVE TABLE REPRESENTS THE TOTAL NUMBER OF ANCHORS REQUIRED AFTER CONSIDERING THE COMPARATIVE ANALYSIS THAT CHECKS TENSION AND SHEAR AS A COMBINED REACTION, THE ANCHOR BENDING CAUSED BY SHEAR FORCES AND THE MAXIMUM ANCHOR SPACING FROM TESTING.
  MUST START ANCHOR LOCATIONS WITH ONE ANCHOR, IN FRAME JAMB, 6" ABOVE AND BELOW MEETING RAIL AND ONE ANCHOR 6" FROM EACH CORNER WHERE FRAME HEADER/FRAME SILL MEET THE FRAME JAMB. BALANCE OF ANCHORS ARE TO BE EQUALLY SPACED.
- NO COMBINATION OF WIDTH AND HEIGHT MAY EXCEED THE SINGLE HUNG WINDOW FRAME AREA OF 28.04 SQUARE FEET (53-1/8" MAX. x 76" MAX.) OR THE LARGEST SASH D.L.O. AREA OF 11.96 SQUARE FEET (47-11/16" MAX. x 36-1/8" MAX.). BOTH ARE SHOWN ON DRAWING 12-201, PAGE 3, EXTERIOR ELEVATION SINGLE HUNG WINDOW WITH PICTURE WINDOW.

#### ANCHOR GENERAL NOTES:

- #10 WOOD SCREW INTO G-0.42 WOOD, 3/4" EDGE DISTANCE, WITH 1 1/2" PENETRATION, T= 190, V=182.86#.

  1/4" DIAMETER ELCO ULTRACON INTO 2846 PSI CONCRETE, 1" EDGE DISTANCE, MINIMUM SPACING = 4" WITH 1 3/4" EMBEDMENT, T=460#, V=225#.

  1/4" DIAMETER ELCO ULTRACON INTO GROUT FILLED BLOCK, 2 1/2" EDGE DISTANCE, MINIMUM SPACING = 4 1/2" WITH 2 1/4" EMBEDMENT, T=410#, V=250#.

  1/4" DIAMETER ELCO ULTRACON INTO 1,924 PSI CMU, 1" EDGE DISTANCE, MINIMUM SPACING =6" WITH 1 1/4" EMBEDMENT, T=140#, V=140#.
- #10-24 THROUGH BOLT AND NUT (GALVANIZED) V=197#.
- FOR ATTACHMENT TO 6063-T5 OR STRONGER ALUMINUM ALLOY, WITH A MINIMUM THICKNESS OF 1/8", USE ELCO CONSTRUCTION PRODUCTS 1/4-20, BI-FLEX 300 S.S. BI-METAL (T=259#,V=715#) SELF DRILLING FASTENERS-HWH (DRILL POINT 3) WITH STALGARD COATING. FASTENER ENGAGEMENT WITH METAL MUST BE AT LEAST 3 PITCHES ON SCREW WITH MINIMUM OF 1/2" EDGE DISTANCE. THE ALUMINUM ALLOY FRAME MUST BE OF A STRENGTH, SIZE AND THICKNESS TO SUPPORT THE WINDOW SIMILAR TO THAT SHOWN IN THE DETAILS FOR WINDOWS WITH THE ULTRACON INSTALLATION. FASTENER QUANTITIES AND SPACING SHALL BE THE SAME AS SHOWN FOR THE #10 WOOD SCREW. LOAD CAPACITY OF ALUMINUM ALLOY FRAME, WITH WINDOW, MUST BE VERIFIED AS COMPLIANT WITH THE FLORIDA BUILDING CODE 2010, BY A REGISTERED PROFESSIONAL ENGINEER.
- WITH THE FLURIDA BUILDING CODE 2010, BY A REGISTERED PROFESSIONAL ENGINEER.

  FOR ATTACHMENT TO 12 GAUGE (MIN.) STEEL, USE ELCO CONSTRUCTION PRODUCTS 1/4-20, BI-FLEX 300 S.S. BI-METAL (T=360#,V=715#) SELF DRILLING
  FASTENERS-HWH (DRILL POINT 3), WITH STALGARD COATING. THE STEEL FRAME MUST BE OF A STRENGTH, SIZE AND THICKNESS TO SUPPORT THE WINDOW
  SIMILAR TO THAT SHOWN IN THE DETAILS FOR WINDOWS WITH THE ULTRACON INSTALLATION. FASTENER QUANTITIES AND SPACING SHALL BE THE SAME AS
  SHOWN FOR THE #10 WOOD SCREW. LOAD CAPACITY OF STEEL FRAME, WITH WINDOW, MUST BE VERIFIED AS COMPLIANT WITH THE FLORIDA BUILDING CODE
  2010, BY A REGISTERED PROFESSIONAL ENGINEER. USE G-90 GALVANIZED STEEL OR SEE FBC 2010 DISSIMILAR METAL REQUIREMENTS.
  ALL ELCO ULTRACONS ARE TO BE COATED WITH STALGARD.
  ALL ELCO ULTRACONS AND LAG SCREWS ARE TO BE PHILLIPS, FLAT HEAD.

#### **TABLE 2 NOTES:**

- 1, THE ABOVE TABLE REPRESENTS THE TOTAL NUMBER OF ANCHORS REQUIRED AFTER CONSIDERING THE COMPARATIVE ANALYSIS THAT CHECKS TENSION AND SHEAR AS A COMBINED REACTION, THE ANCHOR BENDING CAUSED BY SHEAR FORCES AND MAXIMUM ANCHOR SPACING FROM TESTING.
- MUST HAVE ONE ANCHOR 6" FROM EACH CORNER WHERE FRAME HEADER/FRAME SILL MEETS FRAME JAMB. BALANCE OF ANCHORS ARE EQUALLY SPACED.
- NO COMBINATION OF WIDTH AND HEIGHT MAY EXCEED THE PICTURE WINDOW FRAME AREA OF 15.83 SQUARE FEET (30" MAX. x 76" MAX.) OR THE D.L.O. AREA OF 13.09 SQUARE FEET (26-1/8" MAX. x 72-1/8" MAX.) BOTH ARE SHOWN ON DRAWING 12-201, PAGE 3, EXTERIOR ELEVATION SINGLE HUNG WINDOW WITH PICTURE WINDOW.
- FOR 12" WIDE PICTURE WINDOW HEAD AND SILL ANCHORS SHALL BE 3" FROM EACH END W/ BALANCE OF ANCHORS EQUALLY SPACED.

TABLE 3 - MULLION CONNECTION TO SH250 IR & PICTURE WINDOW IR						
SH WIDTH OF FULL WINDOW (In)	SH JAMB HEIGHT OF FULL WINDOW (in)	WIDTH OF PICTURE WINDOW SIZE (In)	NUMBER OF #10-24 BOLTS REQUIRED W/ 1 BOLT 6" FROM TOP, 1 BOLT 6" FROM BOTTOM, 1 BOLT 6" ABOVE MTG RAIL & 1 BOLT 6" BELOW MTG RAIL. BALANCE EQUALLY SPACED.			
19-1/8 - 53-1/8	26 - 38-3/8	12 - 30	6			
19-1/8 - 53-1/8	50-5/8 - 76	12 - 30	8			

Approved as complying with the Florida Building Code NOATIZ-6 Miemi Dade Product I

ASSOCIATES KNEZE 2590 S (954) `⊨ AIR MASTER AWNING, LLC.
WINDOWS AND DOORS
ROAD PR #2 INTERIOR KM 56.7
BARCELONETA, P.R. 00617
Tel. (767) 623-1800 Fex (787) 623-0087 V.J. Knezevích ARV AS NOTED 07/06/2012 drawing rea 12-201 sheet 5 of 6

